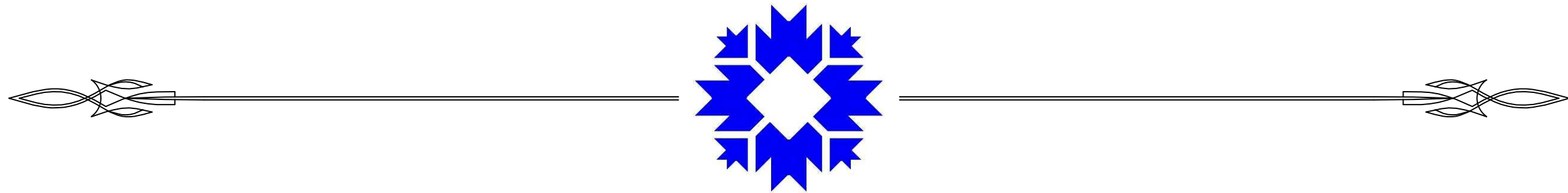


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CITY OF BLOOMINGTON  
ENGINEERING DEPARTMENT



WEST 6TH STREET  
TREE MITIGATION PLAN

ROUTE: 100 BLOCK WEST 6TH STREET

SIDEWALK, TREE AND TREE GRATE REPLACEMENT ALONG WEST 6TH STREET AND NORTH WALNUT STREET

PROJECT NO. PW2014-009-455



CITY OF BLOOMINGTON  
MONROE COUNTY  
INDIANA

DATA

TRAFFIC DATA		WEST 6TH STREET
AADT (2014)		
AADT (2014 PROJECTED)		
DHV (2035 PROJECTED)		
DIRECTIONAL DISTRIBUTION		
TRUCKS		
DESIGN DATA		WEST 6TH STREET
DESIGN SPEED		NA
PROJECT DESIGN CRITERIA		PEDESTRIAN
FUNCTIONAL CLASSIFICATION		SIDEWALK
RURAL/URBAN		COMMERCIAL, DOWNTOWN
TERRAIN		LEVEL
ACCESS CONTROL		NA

INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2014  
AND CURRENT SUPPLEMENTS THERETO, TO  
BE USED WITH THESE PLANS

RECOMMENDED  
FOR APPROVAL \_\_\_\_\_ 14/14/2014  
CITY ENGINEER DATE

DESIGNED: \_\_\_\_\_ DRAWN: REA  
CHECKED: \_\_\_\_\_ CHECKED: XX

CITY OF BLOOMINGTON  
ENGINEERING DEPARTMENT

TREE MITIGATION PLAN  
100 BLOCK W 6TH STREET

HORIZONTAL SCALE BRIDGE FILE

VERTICLE SCALE DESIGNATION

SURVEY BOOK SHEETS

1 of 5

CONTRACT PROJECT

UTILITIES	
City of Bloomington Parking Enforcement 401 N Morton Street Suite #120 Raye Ann Cox 812-349-3436	City of Bloomington Street Department 1981 South Henderson St Joe Vandeventer 812-349-3448
Water and Sewer City of Bloomington Utility Department 600 E Miller Drive Bloomington, IN 47401 Jane Fleig 812-339-1444	Gas Vectren 205 S Madison St Bloomington, IN 47404 812-330-4009
Electricity Duke Energy 1100 West 2nd Street Bloomington, IN 47403 Kerry Ducker 812-337-3035	

GENERAL NOTES	
**	Existing utilities: Existing buried utilities shown in the plan are shown in accordance with the available records and field information available to the engineer. Other utilities may also be present. It is anticipated that numerous buried utility lines are likely to be encountered during construction. The contractor shall be responsible for field locating and coordinating with the owners of the existing utilities to determine the location of their buried facilities. The contractor shall contact City Engineering of any conflicts between existing utilities and proposed work.
**	Maintenance of traffic (vehicular and pedestrian): Continuous maintenance of access to business and residences shall be provided along with protection of the public from construction activities at all times. Temporary traffic control shall be provided by the contractor and in accordance with the latest addition of the Indiana MUTCD. Contractor shall be responsible for keeping the project site in a neat and safe condition at all times.
**	Use of metered parking spaces: The use of metered parking spaces will be allowed for construction activity on an 'as needed' basis. No fees will be passed onto the contractor for the use of metered parking spaces. The contractor shall be responsible for requested and coordinating the use of parking spaces, in advance, with the City of Bloomington Parking Enforcement. Contractor shall be responsible for posting 'no parking' signs 24 hours in advance of need.
**	The City of Bloomington Street Department will remove the majority of the existing street trees marked for removal, prior to construction. The trees tops will be cut down and approximately three (3) feet of tree trunk will be remaining. The contractor shall be responsible for the removal of the tree trunk and root ball. After completion of the project, the City of Bloomington Parks and Recreation Department will be responsible for the installation of new street trees. The contractor shall place adequate soil for planting into the tree area, all soil shall be free of construction debris.
**	Contractor shall provide all materials, equipment, tools and labor with the exception of: The City of Bloomington shall provide the proposed tree grates. The contractor shall be responsible for installing the tree grates in accordance to the manufactures recommendations. The contractor shall be responsible for delivery of the tree grates from the Winston Thomas storage site to the project site. Any necessary modifications to the trees grates shall be performed by the contractor at the contractors expense. Existing tree grates required for removal from the project site shall become the property of the contractor and disposed of at the contractors expense.
**	Any disturbance of parking meters for construction purposes must be coordinated in advance with Parking Enforcement. Parking Enforcement will remove and reinstall all parking meter heads. The contractor shall be responsible for removal and installation of the parking meter post.
**	Contractor is limited to working at the project site from 6AM to 4 PM, Monday through Thursday.

\*\* REPRESENTS GENERAL NOTES REQUIRED

INDEX TO SHEETS	
SHEET NO.	DRAWING INDEX
1	TITLE SHEET
2	INDEX AND GENERAL NOTES
3	DEMOLITION
4	SITE PLAN
5	DETAILS

REVISIONS		
SHEET NO.	DATE	REVISED

		RECOMMENDED FOR APPROVAL _____ 14/14/2014 CITY ENGINEER DATE		CITY OF BLOOMINGTON ENGINEERING DEPARTMENT	HORIZONTAL SCALE	BRIDGE FILE
					VERTICLE SCALE	DESIGNATION
					SURVEY BOOK	SHEETS
					CONTRACT	2 of 5 PROJECT
				TREE MITIGATION GENERAL NOTES		



- Notes:
1. Contractor shall take care not to damage existing trees during sidewalk demolition.
  2. Tree removal shall consist of excavating and removal of root ball to a depth of three feet (3 FT). Only soil suitable for planting shall be used for backfill.
  3. Contact City of Bloomington Parking Enforcement for removal of parking meter head.

- RC Remove concrete.  
RT Remove tree and tree grate.

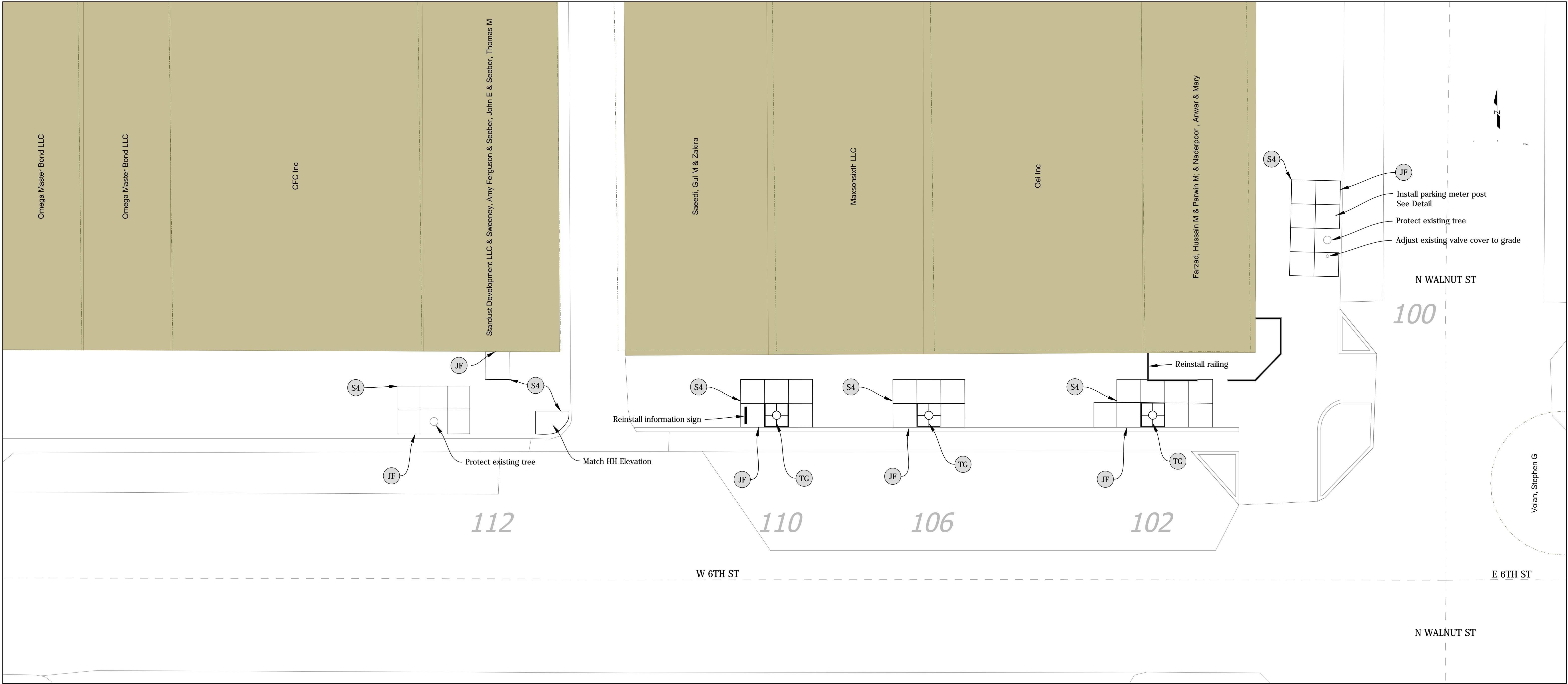
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DESIGNED: _____	DRAWN: REA _____
CHECKED: _____	CHECKED: _____

CITY OF BLOOMINGTON  
ENGINEERING DEPARTMENT

TREE MITIGATION  
DEMOLITION

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICLE SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	3 of 5
	PROJECT





- Notes:
- Where existing concrete sidewalk is to be reconstructed, all disintegrated concrete, brick, stone, or other material shall be completely removed and replaced with new concrete sidewalk in accordance with 604.03. Remove existing sidewalk and restore roadway with 9" 4000 p.s.i concrete and 1½ HMA overlay.
  - Such sidewalk shall be constructed to a minimum depth of 4 in. unless another depth is designated and to the width of the adjoining walk, or to a width of no less than 48 in. from the face of curb, or to such other width as directed.
  - The removal of concrete sidewalk shall be to uniform lines as directed. The sidewalk to be removed shall be cut in a straight line with an approved power driven concrete saw. The sawing shall be such that the portion of sidewalk to remain in place shall not be damaged. All portions which are damaged or removed back of the established line shall be replaced.
  - Unless otherwise directed, sidewalk which must be removed shall be removed between tool marks or joints. At locations where the sidewalk and curb are adjacent and the curb is deteriorated, the curb shall also be replaced as directed.
  - The new sidewalk shall have a joint pattern similar to the surrounding sidewalk. Sidewalk placed at drives shall be 6 in. thick, or the same depth of the existing drive, whichever is greater.
  - Contact City of Bloomington, Parking Enforcement for removal and installation of parking meter heads. Contractor shall be responsible for removal and installation of parking meter post.
  - All joints adjacent to existing buildings must be sealed with silicon joint sealant.

Materials									
Item	Name	Units	112	110	106	102	100	Undistributed	Total
604-02007	Sidewalk, Concrete, Reconstruct	SYS	20.66	13.09	14.89	22.10	20.88		91.62
604-05250	Preformed Joint Material, ½ in.	LFT	25.00	10.00	10.00	20.00	15.00		80.00
	Grind joints, concrete	LFT						20.00	20.00
602-04648	Tree Grate, Install	EACH		1.00	1.00	1.00			3.00
201-02255	Tree Removal	EACH		1.00	1.00	1.00			3.00

- Ⓢ4 Sidewalk, 4 IN concrete on 4 IN compacted aggregate.
- ⓐJF Preformed joint material, 1/2.
- ⓐTG Install tree grate.

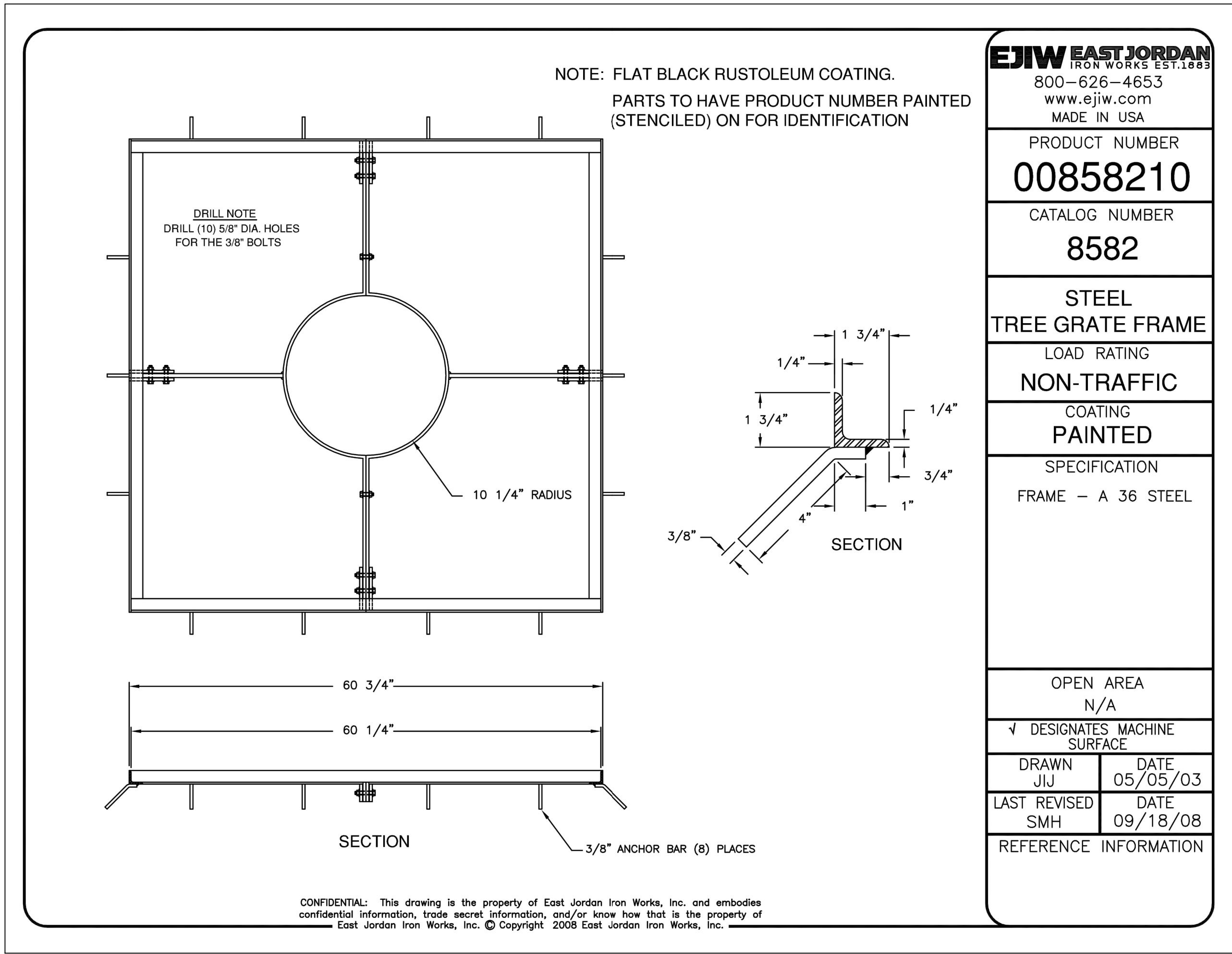
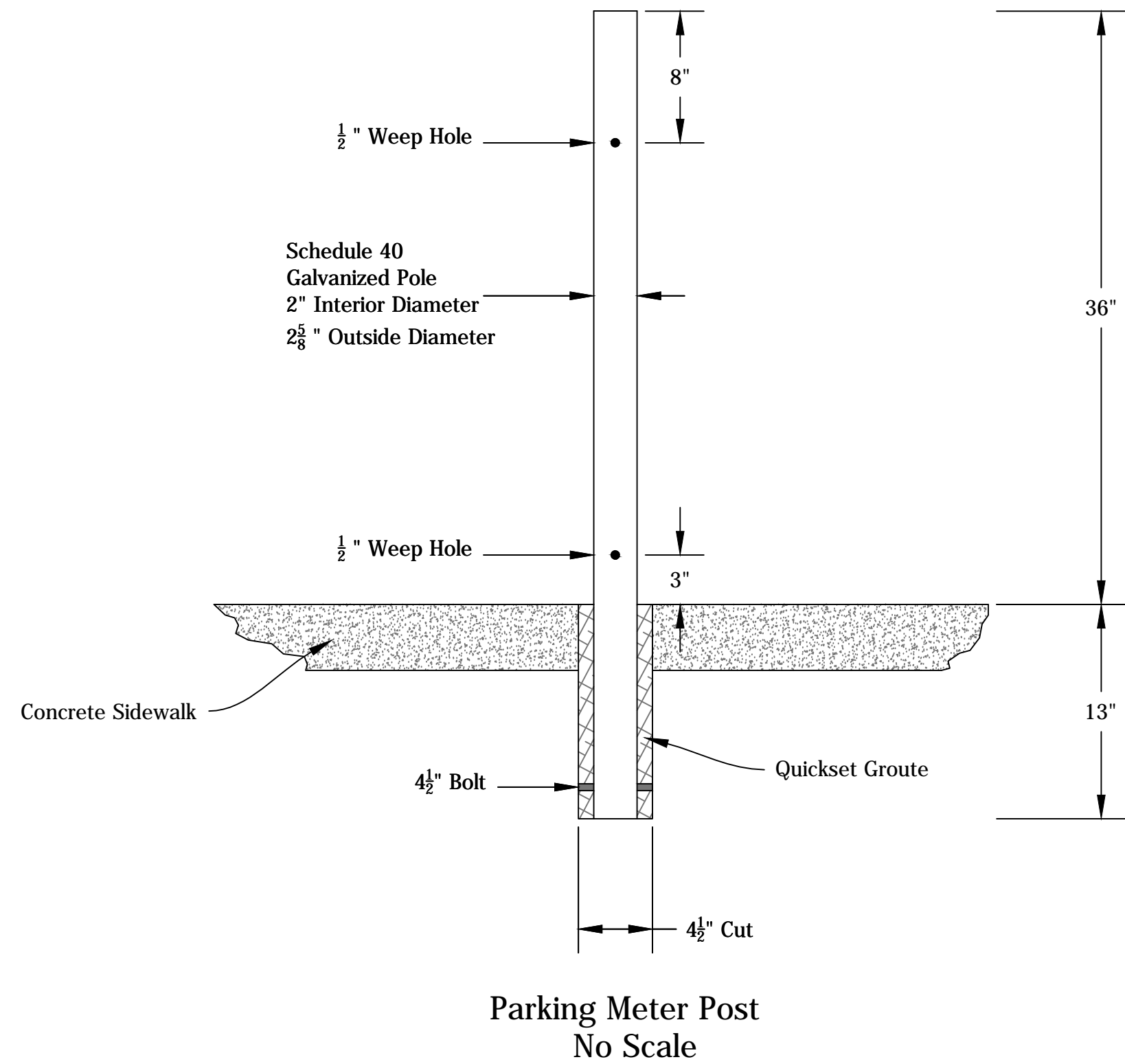
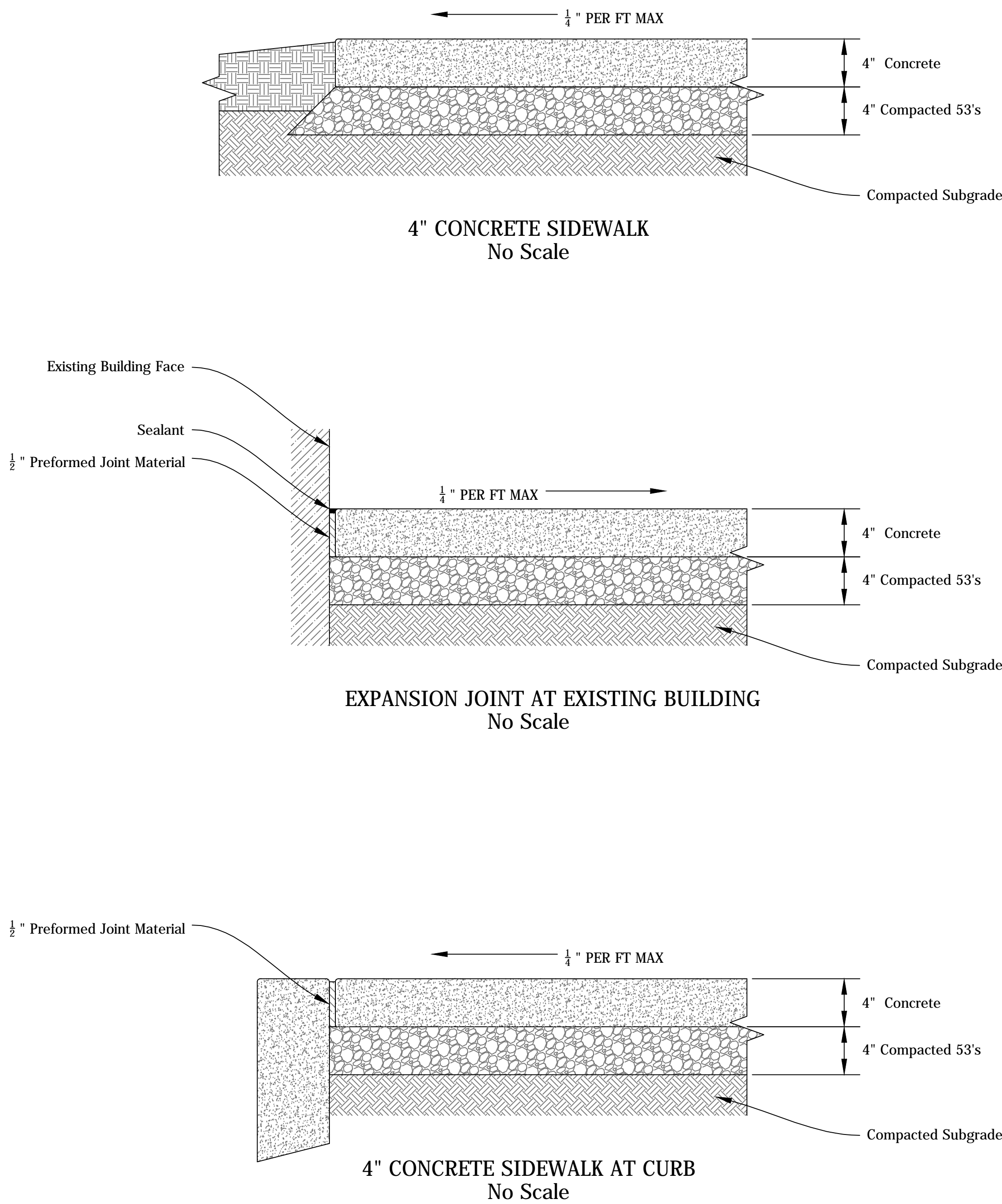
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DESIGNED: _____	DRAWN: REA _____
CHECKED: _____	CHECKED: _____

CITY OF BLOOMINGTON  
ENGINEERING DEPARTMENT

TREE MITIGATION  
SITE PLAN

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE
VERTICLE SCALE	DESIGNATION
SURVEY BOOK	SHEETS 4 of 5
CONTRACT	PROJECT

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		RECOMMENDED FOR APPROVAL _____ 14/14/2014 CITY ENGINEER DATE		CITY OF BLOOMINGTON ENGINEERING DEPARTMENT		HORIZONTAL SCALE	BRIDGE FILE
		DESIGNED: _____	DRAWN: REA			VERTICLE SCALE	DESIGNATION
		CHECKED: _____	CHECKED: _____	TREE MITIGATION DETAILS		SURVEY BOOK	SHEETS
						CONTRACT	4 of 5 PROJECT